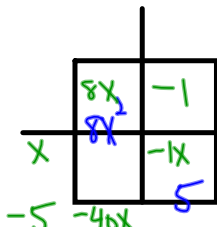


Name: _____

Factoring – Quadratic Trinomials (a≠1) – Version 1

Directions: Please fully factor the following expressions.

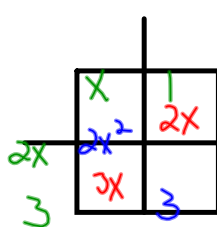
1. $8x^2 - 41x + 5$



40
-1 -40
-2 -20
-4 -10
-5 -8

$(8x-1)(x-5)$

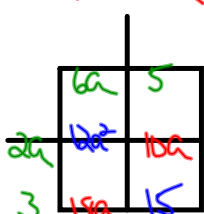
2. $2x^2 + 5x + 3$



6
1 6
2 3

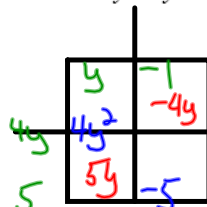
$(x+1)(2x+3)$

3. $12a^2 + 28a + 15$



180
1 180
2 90
3 60
4 45
5 36
6 30
9 20
10 18
12 15
 $(2a+3)(6a+5)$

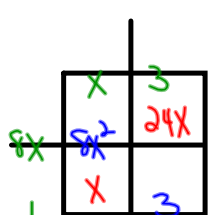
4. $4y^2 + y - 5$



-20
-1 20
-2 10
-4 5

$(4y+5)(y-1)$

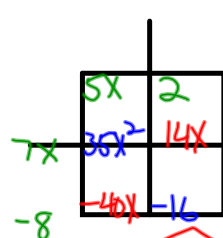
5. $8x^2 + 25x + 3$



24
1 24
2 12
3 8
4 6

$(8x+1)(x+3)$

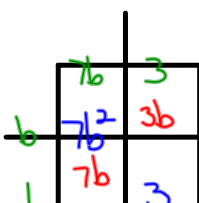
6. $35x^2 - 26x - 16$



-560
1 -560
2 -280
4 -140
5 -112
7 -80
8 -70
-560
10 -56
14 -40
16 -35
20 -28

$(7x-8)(5x+2)$

7. $28b^2 + 40b + 12$ GCF is 4 $4(7b^2 + 10b + 3)$



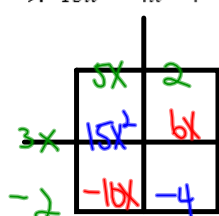
21
1 21
3 7
 $4(7b+3)(b+1)$

8. $48c^2 + 13c - 1$



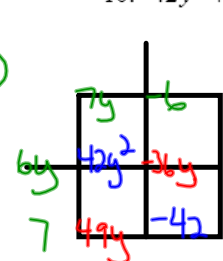
-48
-1 48
-2 24
-3 16
-4 12
-6 8
 $(16c-1)(3c+1)$

9. $15x^2 - 4x - 4$



-60
1 -60
2 -30
3 -20
4 -15
5 -12
6 -10
 $(5x+2)(3x-2)$

10. $42y^2 + 13y - 42$



-1764
-1 1764
-2 882
-3 588
-4 441
-6 294
-7 252
-9 196
-12 147
-14 126
-18 98
-1764
-21 84
-28 63
-36 49
 $(6y-7)(7y-6)$